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- I. *A Letter to Sir Hans Sloane, Bart. R.S.Pr.&c. containing a Description of some uncommon Appearances observed in an Aurora Borealis, by the Reverend Mr. Derham, Canon of Windsor, and F. R. S.*

Honoured SIR,

THE *Lumen Boreale* is of late so common a *Phænomenon*, that I should not think it worth troubling you with that of *Sunday Oct. 13* last, but that I observed some very different Appearances of it at *Redbridge in Hants, near Southampton*, where I then was on our College Business.

About 8 in the Evening of that Day, my Family and others at *Windsor*, saw a considerable *Streaming* in the *North*, with such bright Lances and Columns as usual. But at *Redbridge* none such appeared, only in the *North*, I observed a great thick, black Bank of Vapours; the Top reaching about  $20^{\circ}$  above the Horizon, without any Convexity or Curvature, as is usual in most of the *Streamings* I have seen; but instead of that, the upper Part was indented in many Parts, with long black Pyramids, somewhat resembling the Streams of the *Lumen boreale*, the Edges of which were gilded with lucid Rays, of the Streaming Colour: And all over the Clouds, or Vaporious Bank, I discovered a great Commotion or Disturbance behind them, as if something was rolling, or tumbling behind them. The End of all these Appearances I

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expected: would have been *Streaming*: But in less than an Hour, the Clouds (which had been pretty still) began to move to the *S. W.* and at last obscured the whole Hemisphere; which before was all clear enough (except towards the *North*) to shew the Stars, although bespread with Vapours, like a thin Fog, a little inclining to red.

This Relation I thought it convenient to give you, and the Illustrious Society, because it may assist such as are wiser than my self to discover the Nature of this difficult *Phænomenon*.

*Your much obliged*

*Humble Servant,*

W. DERHAM.

II. *A remarkable Conformation of the Urinary Parts, communicated in a Letter to the Same, by Mr. John Budgen.*

I Am advised to communicate to you a very uncommon Case, which I met with in my Country Practice, and is as follows.

In *Villâ Com' Surriæ, Ockley* vulgò dictâ, anno 1711 nata est Infantula, cujus in Tergo, circa vertebra inferiores, apparuit Tumor indolens, cutis coloris,